



US009247796B1

(12) **United States Patent**
Mulhern

(10) **Patent No.:** **US 9,247,796 B1**
(45) **Date of Patent:** **Feb. 2, 2016**

(54) **CRADLE-CASSETTE APPARATUS FOR AN ELECTRONIC DEVICE**

(71) Applicant: **Iordanka Koleva Mulhern**, Milwaukee, WI (US)

(72) Inventor: **Iordanka Koleva Mulhern**, Milwaukee, WI (US)

(73) Assignee: **WORLD RICHMAN MANUFACTURING CORPORATION**, Elgin, IL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/447,797**

(22) Filed: **Jul. 31, 2014**

(51) **Int. Cl.**
A45C 11/00 (2006.01)

(52) **U.S. Cl.**
CPC **A45C 11/00** (2013.01); **A45C 2011/003** (2013.01)

(58) **Field of Classification Search**
CPC **A45C 11/00**; **A45C 2011/002**; **A45C 2011/003**; **A45C 2013/025**; **G06F 1/1628**
USPC **206/305**, **320**, **472**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,562,796 A	2/1971	Jacobson	
4,989,926 A	2/1991	Snow, Jr.	
5,128,829 A	7/1992	Loew	
5,184,722 A	2/1993	Shin et al.	
5,363,969 A	11/1994	Shen	
5,570,780 A *	11/1996	Miller	206/305
D379,048 S	5/1997	Ros et al.	
5,845,366 A	12/1998	Kuroda	
6,029,871 A	2/2000	Park	

6,078,908 A	6/2000	Schmitz	
6,239,968 B1	5/2001	Kim et al.	
6,445,577 B1	9/2002	Madsen et al.	
6,971,622 B2	12/2005	Ziegler et al.	
7,032,984 B2	4/2006	Kim et al.	
7,111,773 B1	9/2006	So et al.	
7,743,999 B1	6/2010	Griffin	
8,047,365 B1	11/2011	Lin et al.	
D654,263 S	2/2012	Mahmood et al.	
8,348,055 B2	1/2013	Loban	
8,453,836 B1 *	6/2013	Wang et al.	206/320
8,459,453 B2	6/2013	Parker et al.	
2004/0157653 A1	8/2004	Kato	
2007/0165371 A1	7/2007	Brandenburg	
2009/0120980 A1	5/2009	Calayo	
2011/0297564 A1	12/2011	Kim et al.	
2012/0074006 A1	3/2012	Monaco et al.	
2013/0032617 A1	2/2013	Adelman et al.	
2013/0178155 A1	7/2013	Shulenberg	

* cited by examiner

Primary Examiner — Bryon Gehman

(74) *Attorney, Agent, or Firm* — Christopher J. Scott

(57) **ABSTRACT**

A cradle-cassette apparatus encases and selectively displays an electronic device such as a mobile communications device. The cradle-cassette apparatus includes a cradle and a cassette. The cradle is sized and shaped to removably receive such an electronic device. The cradle includes anterior, posterior, superior, inferior, and lateral cradle sections. The cassette is sized and shaped to translatably receive the cradle construction. The cassette includes anterior, posterior, superior, inferior, and lateral cassette sections. A hinge-axis is provided by way of cooperative structure associated with the lateral cradle and cassette sections. The cradle construction is thus translatably displaceable relative to the cassette construction for positioning the cradle-cassette apparatus in either a cradle-closed position or a cradle-exposed position. The anterior cradle and cassette sections face in the same direction when in the cradle-exposed position, and the anterior cradle and cassette sections facing in opposite directions when in the cradle-closed position.

20 Claims, 26 Drawing Sheets

